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09/727,633	12/01/2000	Katsumi Yoshizawa	09812.0681	4183
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FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			EXAMINER DURAN, ARTHUR D	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary****Application No.**

09/727,633

**Applicant(s)**

YOSHIZAWA, KATSUMI

**Examiner**

Arthur Duran

**Art Unit**

3622

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 18 January 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 9 and 14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 9 and 14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. Claims 9 and 14 have been examined.

***Response to Amendment***

2. The Amendment filed on 1/18/08 is insufficient to overcome the prior rejection.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 9 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanter (5,537,314) in view of Postrel (6,594,640) in further view of Rosen (20030070080).

Claims 9 and 14: Kanter discloses an information processing apparatus, method for processing information concerning electronic commerce in which a customer receiving services offered by a service provider obtains points in accordance with the amount of money having been paid to said service provider, said information processing apparatus comprising:

first communication controlling means for controlling data communication with another information processing apparatus via a first network (Fig. 1);

first recording means for recording information on a plurality of the service providers and information on a plurality of the customers receiving services from said plurality of service providers (Fig. 1);

second communication controlling means for controlling data communication with a financial institution information processing apparatus via a second network (Fig. 1);

payment computing means for computing an amount of money to be refunded to said customer in accordance with the number of the points said customer owns (col 4, lines 59-67; col 7, lines 5-7); and

signal generating means for generating a signal that requests said financial institution information processing apparatus having an account of said customer to transfer a predetermined amount of money to the account of said customer (col 4, lines 59-67; col 7, lines 5-7), wherein:

said first communication controlling means controls communication in which a signal corresponding to the amount of money computed by said payment computing means is sent to an information processing apparatus owned by said customer and a signal corresponding to a desired amount of transfer money is received from the information processing apparatus owned by said customer (col 4, lines 59-67; col 7, lines 5-7); and

said second communication controlling means controls communication in which the signal generated by said signal generating means is sent to said financial institution information processing apparatus and a signal representing completion of processing by said financial institution information processing apparatus is received (col 4, lines 59-67; col 7, lines 5-7; col 22, lines 20-50; col 22, line 60-col 23, line 2; col 23, lines 25-45; col 27, lines 40-50).

Kanter further discloses key generating means for generating an encryption key for encrypting and decoding communication data (col 17, lines 53-60; col 17, lines 62-67; col 18, line 65-col 19, line 2; col 23, lines 45-55).

Kanter further discloses authenticating means for authenticating said other information processing apparatus with which communication is controlled by said first communication controlling means (col 17, lines 53-60; col 17, lines 62-67; col 18, line 65-col 19, line 2; col 23, lines 45-55).

Kanter further discloses receiving means for receiving a point redemption request for redeeming points owned by said customer for money, said point redemption request including information on the number of points which is desired to be redeemed for money from among the total points owned by said customer (col 4, lines 59-67; col 7, lines 5-7);

transferring means for transferring, to an account of said customer, an amount of money corresponding to the desired number of points in the information included in said point redemption request from among the total points (col 4, lines 59-67);

and updating means for updating the total points corresponding to said customer (col 24, lines 6-18).

Kanter does not explicitly disclose updating means for updating the total points corresponding to said customer by subtracting the desired number of points in the information included in said point redemption request from the total points owned by said customer.

Since Kanter discloses the customer having a total points and the customer redeeming the points for cash, it is obvious that Kanter would balance the account of the customer after a points redemption.

Kanter does not explicitly disclose e-commerce over an open network.

However, Postrel discloses e-commerce over an open network (Fig. 4; Fig. 5; col 5, lines 31-36; col 1, lines 13-17; col 1, lines 50-53).

Postrel further discloses a point issuing system and point redemption system which are separate from the plurality of service providers (Fig. 5).

Postrel further discloses that all points control, transfer, redemption, tracking services, can be performed by a server or service separate from the user or merchant (Fig. 4; Fig. 5).

Postrel further discloses authenticating the customer (col 11, line 61-col 12, line 1; col 6, lines 3-7).

Postrel further disclose updating means for updating the total points corresponding to said customer by subtracting the desired number of points in the information included in said point redemption request from the total points owned by said customer (col 5, lines 50-60; col 1, lines 13-17).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to add Postrel's utilization of merchant's accessible over the Internet to Kanter's utilization of multiple merchants. One would have been motivated to do this in order to allow Kanter's users to access a wider range of merchants.

Additionally, Kanter further discloses wherein said authenticating means authenticates said other information processing apparatus based on a unique identifier thereof which is received under the control of said first communication controlling means and which is issued from an authority connected to said first network (col 17, lines 53-60; col 17, lines 62-67; col 18, line 65-col 19, line 2; col 23, lines 45-55).

Additionally, Kanter further discloses that a user is uniquely identified (col 4, lines 39-67; col 18, line 62-col 19, line 5) and then issued a unique certificate (col 4, lines 39-67).

Kanter further discloses uniquely identifying the points that are appropriate to different accounts (col 21, line 55-col 22, line 6); transferring unique amounts of points after a user has been identified (col 22, lines 25-32); that specific amounts of credit or points are transferred to the users account and that the unique cash must be transferred to the appropriate institution (col 22, lines 34-41).

Kanter further discloses unique wire transfers (col 22, line 60-col 23, line 2); issuing unique point transfers only under specific conditions (col 24, lines 32-40); issuing unique, identifiable points transfers to users (col 27, lines 40-50); and uniquely identified awards and points transfers (col 28, lines 35-45).

Kanter further discloses utilizing identifiers (col 31, lines 31-42).

Kanter also discloses joint or common accounts that can be utilized for all aspects of the invention (col 27, lines 60-65).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made that Kanter's providing unique point transfer amounts with unique qualities to a user who has been identified can include identifiers related to the user for the point transfer. One would have been motivated to do this in order to better track the utilization of points.

Additionally, Kanter discloses that joint or common accounts can be utilized for all aspects of the disclosure. Therefore, it would be obvious that after a user has been identified, the user can be given access to a common account from which points redemption will occur. One would be motivated to do this in order provide redemption for users utilizing group accounts.

Additionally, Kanter discloses a point account database connected to the point issuing system and the point redemption system for managing the point account (Fig. 1);

An electronic account book database connected to the point redemption system for storing information on the customer and the plurality of service providers (Fig. 1).

Postrel discloses a point account database connected to the point issuing system and the point redemption system for managing the point account (Fig. 1; Fig. 3; Fig. 4; Fig. 5);

An electronic account book database connected to the point redemption system for storing information on the customer and the plurality of service providers (Fig. 1; Fig. 3; Fig. 4; Fig. 5).

Kanter discloses a temporary storing step of temporarily storing money in a pool account from a plurality of service provider accounts to be used for point transfers; and

A transfer step of transferring money across the financial network from the pool account to a customer account belonging to the customer in response to the point transfer (Fig. 1, item 78; col 21, lines 64-col 22, line 6).

Postrel discloses discloses a temporary storing step of temporarily storing money in a pool account from a plurality of service provider accounts to be used for point transfers; and

A transfer step of transferring money across the financial network from the pool account to a customer account belonging to the customer in response to the point transfer (Fig. 4; Fig. 5; col 5, lines 60-67).

Kanter further discloses that money for point transfers can be held in the sponsor's bank account and taken from there and placed in a third party holding account which is managed by the Central Control Center (Fig. 1, item 78, item 12, item 52; col 21, line 64-col 22, line 6):



“(12) A sponsoring company may be billed for pending commission amounts at each point-of-sale purchase made by a participant at their location. The amount may be electronically debited from the sponsoring company's appropriate bank account, 52, 54 through line 38, I/O 46, bus 44 and stored in memory 78 until at least such time as the appropriate cash return policy of the purchase has expired, so as to insure that the commission will be available when the appropriate participant(s) attempt(s) to redeem the commission” (col 21, line 64-col 22, line 6).

Kanter further discloses a variety of ways and manners that can be utilized for the point transferring and money exchange and that multiple variations of different parties can be involved (col 22, lines 34-41; col 28, lines 28-40; col 17, lines 37-45; col 14, line 62-col 15, line 3; and below):

“(15) Financial institution 92 through another communication line 38, and through I/O 46, line 38 may electronically transfer funds to accounts 52, 54. Alternatively this could be accomplished through direct connection of a conventional communication line (not shown), from institution 92 to accounts 52, or 54. This might occur should a participant 82 or 84 have a credit line approved for use by the financial institution with such status being stored in memory 79, or 30, or in the magnetic stripe of the plastic card, and should the participant make a purchase where the program awards used is less than the purchase total is. The participant could choose to pay the balance using the financial institution approved credit line. If so, computer 60 or 24, could verify the participant's proper status and authorize payment from the lending institution to the appropriate sponsoring company's bank account. The financial institution could then send to the participant, a bill or other means for collection as is customary

with such lending procedures, or alternatively, center 12 may issue a bill to the participant” (col 23, lines 25-43).

Kanter also discloses that the participant can be rewarded through the sponsoring company via the central control center or also through the sponsoring company via the central control center where an additional step or additional accounts are utilized for the transfer (Fig. 1 and below):

“(12) Furthermore, commissions can be made available to participants immediately, or held in a holding account memory 78, or in a similar account in memory 30, until such time as the sponsoring company desires to release the commission amounts” (col 21, lines 50-60).

Point transfer for cash can be made from the third party’s bank account to the user or from the third party bank account to the holding account to the user:

“(13) When a participant makes a sale at location 14 using earned credit that has been posted by a third party credit issuer to his/her account for use at that location, but the actual cash value has not yet been transferred to a holding account, computer 30 may electronically transfer, through bus 26, I/O 32, line 38, the amount used by the sale, from the third party’s bank account to the bank account of location 14” (col 22, lines 34-41).

Notice also that the Holding Account (Fig. 1, item 78) functions as a pool account for temporarily storing money from the plurality of service provider account to be transferred to the customer account during transfer (Fig. 1, item 78); and that the Central Control Center (Fig. 1, item 10) functions as the point transfer dealer account for transferring money from the pool account to the customer account across the financial network in response to the point transfer (Fig. 1, item 10).

In another variation, notice, as cited above, that the financial institution or lending institution can represent multiple sponsoring companies. In this case, the Financial/Lending institution (Fig. 1, item 92 ) acts as the pool account that is connected to multiple sponsoring companies. Then, the Holding Account (Fig. 1, item 78 ) acts as the point transfer dealer account.

Notice that the disclosure of Kanter and the accompanying Fig. 1 of Kanter render obvious multiple variations for point transfer and money exchange. Also, notice the multiple connection and communication paths between the various entities in Fig. 1. And, note that the disclosure of Kanter states that different communication paths and different combinations of entities involved in the transactions and transfers can exist.

Therefore, the disclosure of Kanter and Postrel disclose and render obvious a pool account for temporarily storing money from the plurality of service provider account to be transferred to the customer account during transfer, and a point transfer dealer account for transferring money from the pool account to the customer account across the financial network in response to the point transfer.

Additionally, Kanter renders obvious the utilization of database and tables (Fig. 1, Abstract).

Kanter renders obvious service provider IDs, corresponding financial institution IDs and account numbers for said plurality of service providers (Kanter, Fig. 1, 'Company Accounts', 'Company's Bank Account').

Kanter renders obvious a point management table including customer information (Fig. 1, Participant Accounts'), a corresponding number of issued points (Fig. 1, Participant

Accounts'; col 19, lines 5-25), dates on which points were acquired (col 19, lines 5-25); dates on which points will expire (col 21, line 63-col 22, line 7; col 22, lines 7-15; col 4, lines 58-63), service provider IDs responsible for the issued points (col 19, lines 5-25), and a redemption rate (col 18, lines 30-40; col 19, lines 5-25).

Also, Postrel further renders obvious the utilization of database and tables (Fig. 5; Fig. 3).

Postrel further renders obvious service provider IDs, corresponding financial institution IDs and account numbers for said plurality of service providers (Fig. 5; col 10, lines 1-10).

Postrel further renders obvious a point management table including customer information, a corresponding number of issued points, dates on which points were acquired; dates on which points will expire, service provider IDs responsible for the issued points, and a redemption rate (Fig. 5; Fig. 3; col 9, lines 47-55).

Kanter discloses the authenticating means cited above.

Kanter does not explicitly disclose that said authenticating means authenticates based on a certificate issued from a predetermined certificate authority connected to said first network.

Kanter does not explicitly disclose a point redemption system for receiving first data encrypted using a public key of the point redemption system from the customer, the first data comprising second data encrypted using a private key of the customer. . . encrypted data comprising another encrypted data within it.

However, Rosen discloses utilizing certificates for authentication and Rosen discloses a public key and private key and encrypted data comprising another encrypted data within it (Rosen, [504, 743] and [767, 907, 921, 1479, 1717, 1741, 1880, 1894]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to add Rosen's utilization of digital certificates and public key and private key encryption techniques to Kanter's authenticated transmissions. One would have been motivated to do this in order to better authenticate transmissions.

Examiner further notes that Rosen discloses double encryption ([784, 1757]) and particularly note Rosen's use of both public and private keys at the same time ([504, 743, 907, 1717, 1880]).

***Response to Arguments***

4. Applicant's arguments with respect to claims 9 and 14 have been considered but are not found persuasive.

Beginning on page 2 of the Applicant's Remarks dated 1/18/2008, Applicant states that the combination of the prior art does not render obvious, "first data encrypted using a public key of the point redemption system from the customer, the first data comprising second data encrypted using a private key of the customer." And, as noted in the Arguments dated 10/2/07, Applicant does not believe that the prior art renders obvious "encrypted data comprising another encrypted data within it."

In the Remarks dated 1/18/2008, Applicant presents many arguments against the Rosen reference. However, Examiner notes that Applicant's arguments and citations concerning Rosen are for Figures that Applicant has selected himself. Applicant did not address the citations from Rosen made by the Examiner.

However, please see the Rosen reference in the rejection above to see how Rosen discloses these features (Rosen, [504, 743] and [767, 907, 921, 1479, 1717, 1741, 1880, 1894]).

Examiner further notes that Rosen does disclose double encryption ([784, 1757]).

Examiner also particularly notes the following citations from Rosen (cited preceding):

"[0504] It is anticipated that the money modules will exchange certificates to verify that each money module is interacting with another valid money module. To this end (as seen in FIG. 34A), the Public Key application B 44 tests the certificate of money module A by using the public key algorithm and the public key corresponding to the private key used by money module A, to encrypt and check A's certificate and verify that it is valid (Step 208).

[0743] Public Key A decrypts the message using its private key (corresponding to its public key) and verifies the validity of cert(TS) (steps 328-330). If cert(TS) is invalid, then Session Manager A notes the session as terminated and sends a transaction denial message to B whose Session Manager also notes the session as terminated (steps 332-334). If cert(TS) is valid, then Security Manager A checks if trusted server B is on the untrusted list (steps 336-338). If trusted server B is on the list, the session is terminated (steps 332-334).

[0907] The length of the public key for each primary server will not change. A timetable will be created which will schedule the implementation and decommission of primary security servers. The new servers will most likely have longer keys unless they are implemented because of increased transaction volume. The list of active PSS public keys is created by a primary security server and encrypted by the server with its private key. The list is then broadcast to other security servers.

[1717] Public Key A decrypts the message using its private key (corresponding to its public key) and verifies the validity of cert(TS) (steps 328-330). If cert(TS) is invalid, then Session Manager A notes the session as terminated and sends a transaction denial message to B whose Session Manager also notes the session as terminated (steps 332-334). If cert(TS) is valid, then Security Manager A checks if trusted server B is on the untrusted list (steps 336-338). If trusted server B is on the list, the session is terminated (steps 332-334).

[1880] The length of the public key for each primary server will not change. A timetable will be created which will schedule the implementation and decommission of primary security servers. The new servers will most likely have longer keys unless they are implemented because of increased transaction volume. The list of active PSS public keys is created by a primary security

server and encrypted by the server with its private key. The list is then broadcast to other security servers.”

Hence, Rosen discloses double encryption and Rosen discloses encryption with the use of both public and private keys at the same time.

Hence, the combination of the prior art renders obvious the features of the Applicant’s claims.

Also, Examiner notes that while specific references were made to the prior art, it is actually also the prior art in its entirety and the combination of the prior art in its entirety that is being referred to. Also, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

When there is a design need or market pressure to solve a problem and there are a finite number of identified, predictable solutions, a person of ordinary skill has good reason to pursue the known options within his or her technical grasp. If this leads to the anticipated success, it is likely the product not of innovation but of ordinary skill and common sense. In that instance the fact that a combination was obvious to try might show that it was obvious under §103.

If a person of ordinary skill in the art can implement a predictable variation, and would see the benefit of doing so, §103 likely bars its patentability. Moreover, if a technique has been used to improve one device, and a person of ordinary skill in the art would recognize that it would improve similar devices in the same way, using the technique is obvious unless its actual

application is beyond that person's skill. KSR Int'l Co. v. Teleflex, Inc., No 04-1350 (U.S. Apr. 30, 2007).

Also, KSR states that it is obvious to recite combination which only unite old elements with no change in their respective functions and which yield predictable results. KSR, 127 S.Ct. at 1741, 82 USPQ2d at 1396.

Examiner further notes that it is the Applicant's claims as stated in the Applicant's claims that are being rejected with the prior art. Also, although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). And, Examiner notes that claims are given their broadest reasonable construction. See *In re Hyatt*, 211 F.3d 1367, 54 USPQ2d 1664 (Fed. Cir. 2000).

### ***Conclusion***

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

a) Herz (20010014868) discloses utilizing a private key within a public key ([288]); and Wright (6,052,466) discloses relevant features ("Encryption of data packets using a sequence of private keys generated from a public key exchange").

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after



the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arthur Duran whose telephone number is (571)272-6718. The examiner can normally be reached on Mon- Fri, 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Stamber can be reached on (571) 272-6724. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3622

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Arthur Duran  
Primary Examiner  
Art Unit 3622

/Arthur Duran/  
Primary Examiner, Art Unit 3622  
2/21/2008